Weekly Summary Report
USEPA Oversight, Sauget Area 2, Sauget, IL
WA No. 224-RXBF-05XX / Contract No. 68-W6-0025

Week Ending Friday, December 3, 2004

This report summarizes the Interim Remedial Action (IRA) work conducted by Solutia and its contractors from November 29 through December 3, 2004 at Site R, Sauget Area 2. The current IRA fieldwork consists of slurry stabilization and stormwater management.

Contractors Onsite

Inquip Associates Inc. (barrier wall construction contractor)
URS (primary consultant for Solutia)

Work Performed This Week

Slurry stabilization activities continued during the week. Limited site grading activities occurred due to the saturated site conditions following significant rainfall. Slurry stabilization, site grading, construction of the barrier wall cap, and demobilization of equipment will continue as the primary activities at the site during the upcoming weeks.

Groundwater Migration Control System (GMCS)

The river elevation decreased slightly during the week, from approximately 395.0 feet above mean sea level (amsl) on November 29 to 393.7 feet amsl on December 3. Correspondingly, the GMCS combined system flow rate increased from 224 gpm on November 29 to 318 gpm on December 3. Each of the three extraction well flow rates were altered on December 2 to equally pump one third of the total extracted groundwater. Previously, the centrally located extraction well, EW-2, was pumping at a higher rate than the north and south extraction wells, EW-1 and EW-3, respectively.

Eight barrier wall piezometers, with four inside and four outside the barrier wall alignment, monitored the groundwater elevations adjacent to the barrier wall alignment during the week. Table 1 shows the river and piezometer water elevations measured on December 3, 2004 (4:00 PM). The barrier wall construction was completed on November 8, 2004.

ROD performance metrics (gradient across the barrier wall)

The four piezometer pairs each showed an inward gradient across the barrier wall throughout the reporting period, with the inside piezometers recording water levels between 1 and 6 feet lower than the piezometers located outside the barrier wall.

FFS performance metrics (gradient between inside wall piezometers and river)

The four inside piezometers each showed an inward gradient toward Site R, throughout the reporting period, when compared to the river level. The inside piezometers recorded water levels between 3 and 8 feet lower than the river elevation during the week.

TABLE 1
River and Piezometer Water Elevations – December 3, 2004 (16:00)

	Elevation (ft above mean sea level)
River Level	393.68
Piezometer 1S – inside wall (northern-most pair)	388.60
Piezometer 1N – outside wall (northern-most pair)	391.96
Piezometer 2E – inside wall (north-central pair)	390.34
Piezometer 2W – outside wall (north-central pair)	392.41
Piezometer 3E – inside wall (south-central pair)	389.48
Piezometer 3W – outside wall (south-central pair)	391.86
Piezometer 4E – inside wall (southern-most pair)	389.77
Piezometer 4W – outside wall (southern-most pair)	391.67

Barrier Wall Cap Construction and Site Grading

No new barrier wall cap construction activities occurred during the week. Site grading activities, which consisted of moving excess spoils and site cleaning along the northern leg of the barrier wall alignment, resumed during the week when weather permitted.

Slurry

Cement was added to new cells to stabilize slurry during the week. Additionally, slurry in the containment berms was monitored and stirred by a trackhoe. Cement was stockpiled on site during the week.

Barrier Wall Construction – Backfill Analyses

During the week, the final set of gradation and permeability results for the backfill samples were reviewed. All results passed specifications, with the permeability tests exceeding the specification requirements by at least one order of magnitude.

Stormwater

Significant rain during the early part of the week caused pooling of stormwater on site. Stormwater was collected from localized areas on site and pumped to the modutanks. As necessary, stormwater was flocculated and discharged to the American Bottoms Regional Treatment Facility (ABRTF).

Other Activities

Inquip continued to decontaminate and demobilize construction equipment on site during the week.